	Application No.	Applicant(s)
Notice of Allowability	10/005,065	KRASULICK ET AL.
	Examiner	Art Unit
	James A. Menefee	2828
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in thi or other appropriate communic GHTS. This application is subjurted and MPEP 1308.	s application. If not included ation will be mailed in due course. <b>THIS</b>
1. This communication is responsive to <u>amendment filed 12/1</u>	<u>6/04</u> .	
2. The allowed claim(s) is/are <u>1-33</u> .		
<ol> <li>Acknowledgment is made of a claim for foreign priority unally a) All b) Some* c) None of the:         <ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>Mone of the:</li></ol></li></ol>	been received. been received in Application N	lo
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		eply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) Including changes required by the Notice of Draftspers	on's Patent Drawing Review (F	PTO-948) attached
1)  hereto or 2)  to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in t	the Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the		
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	nal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Sumr	
<ul> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 5/19/03; 6/30/04; 7/5/05; 7/29/05</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	Paper No./Ma	il Date
		tement of Reasons for Allowance
	9.  Other	Toman of the addition of the mande
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### **DETAILED ACTION** .

## Response to Amendment

In response to the amendment filed 12/16/2004, the specification, abstract, and claims 1, 4-9, 11, 13-14, 23-24, and 28-32 are amended. Claim 33 is added. Claims 1-33 are pending.

# Allowable Subject Matter

Claims 1-33 are allowed. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, there is not taught or disclosed in the prior art an EAM comprising a semiconductor layer where a transmission response of the modulator as a function of applied voltage shifts with increase in operating temperature so that the layer is transparent to light propagating when a zero or reverse bias is applied at operating temperatures substantially greater than 25 degrees Celsius.

For example, the typical prior art EAM must be positively biased in order to operate at temperatures substantially greater than 25 degrees. Reverse biased operation is preferred, therefore the prior art EAM typically includes a cooler so that the operating temperature does not go substantially above about 25 degrees. Since the present EAM can remain reverse biased at higher temperatures, no external cooler is needed. See applicant's discussion of the prior art, present specification, particularly pars. [0046] – [0049].

The remaining independent claims describe systems including lasers and the above EAM, and are allowable for the same reasons.

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Allowance."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

### Response to Arguments

Applicant's arguments filed 12/16/2004 have been fully considered and are persuasive. The previous rejection is withdrawn because applicant's admitted prior art (the rejection used par. [0041]) does not suggest the feature of operating temperatures of substantially greater than 25 degrees.

### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The references cited in this action disclose EAMs either operating at room temperature (i.e. 25 degrees) or without specifying operating temperature.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Menefee whose telephone number is (571) 272-1944. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MinSun Harvey can be reached on (571) 272-1835. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

James Menefee June 26, 2006

JAMES MENEFEE PRIMARY EXAMINER